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DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare:

That my residence, post office address and citizenship are as stated below next to my name.

That I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **METHODS FOR NUCLEIC ACID MANIPULATION** the specification of which (check one)

☒ is attached hereto.

That I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

That I acknowledge the duty to disclose information known to be material to patentability of this application in accordance with Title 37, Code of Federal Regulations §1.56(a).

That I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

☐ ☐

Yes No

(Number) (Country) (Day/Month/Year Filed)

☐ ☐

Yes No

(Number) (Country) (Day/Month/Year Filed)

☐ ☐

Yes No

(Number) (Country) (Day/Month/Year Filed)

That I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

United States Application(s)

(Application Serial No.) (Filing Date) (Status)-(Patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)-(Patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)-(Patented, pending, abandoned)

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

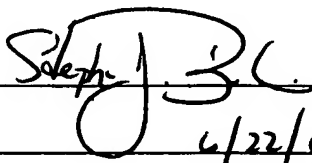
I hereby appoint the following attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence and telephone calls in respect to this application be directed to: WELSH & KATZ, LTD., 120 South Riverside Plaza, 22nd Floor, Chicago, Illinois 60606-3913, Telephone No.: (312) 655-1500:

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Shannon L. Nebolsky	41,217
Mitchell J. Weinstein	37,963
Charles R. Krikorian	40,687

Full name of sole or one
joint inventor:

Stephen J. Benkovic

Inventor's signature:


6/22/02

Date:

Residence and Post Office Address:

771 Teaberry Lane

State College, PA 16801

Citizenship:

United States of America

Full name of additional joint
inventor, if any:

Frank Salinas

Inventor's signature:

FGS

Date:

6/10/02

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Wheaton, Illinois 60187-4969

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SEPTEMBER 05, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/08/2002

REEL/FRAME: 013055/0347
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BENKOVIC, STEPHEN J.

DOC DATE: 06/21/2002

ASSIGNOR:

SALINAS, FRANK

DOC DATE: 06/10/2002

ASSIGNEE:

PENN STATE RESEARCH FOUNDATION,
THE
304 OLD MAIN
UNIVERSITY PARK, PENNSYLVANIA

16802-7000

SERIAL NUMBER: 10125973
PATENT NUMBER:

FILING DATE: 04/19/2002
ISSUE DATE:

013055/0347 PAGE 2

SEDLEY PYNE, EXAMINER
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Honorable Commissioner of Patents and Trademarks. Please record.

1. Name of conveying party(ies):

Stephen J. Benkovic and Frank Salinas

 Additional name(s) of conveying party(ies) attached?
☐ yes ☒ no

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: June 10, 2002 and June 21, 2002

2. Name and address of receiving party(ies):

Name: The Penn State Research Foundation

Internal Address:

Street Address: 304 Old Main

City: University Park State/Prov.: PA

Country: U.S. ZIP: 16802-7000

 Additional name(s) & address(es) attached?
☐ yes ☒ no

4. Application number(s) or patent number(s):

If this documents is being filed together with a new application, the execution date of the application is:

A Patent Application No.(s)

Filing Date

B. Patent No.(s)

10/125,973

April 19, 2002

 Additional numbers attached: ☐ yes ☒ no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Charles R. Krikorian

Internal Address: Welsh & Katz, Ltd.
22nd Floor

Street Address: 120 S. Riverside Plaza

City: Chicago State: IL ZIP 60606

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$40.00

☒ Enclosed☒ Any deficiencies in fees to be charged to deposit account

8. Deposit account number: 23-0920 (Attach duplicate copy of this page if pay by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Charles R. Krikorian, Reg. No. 40,687
Name of Person Signing

Signature

July 1, 2002
Date

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07/10/2002 610M11 00000001 10125973

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ASSIGNMENT

Docket No. 7418/87191

Serial No. 10/125,973

Filed: April 19, 2002

Stephen J. Benkovic and Frank Salinas, hereinafter the assignors, for good and valuable consideration, hereby assign to THE PENN STATE RESEARCH FOUNDATION, a not-for-profit corporation, having an office at 304 Old Main, University Park, PA 16802-7000 hereinafter the assignee, its successors and assigns, the entire right, title and interest in the invention or improvements disclosed in an application for Patent in the United States, identified as Case No. 7418/87191 in the offices of Welsh & Katz, Ltd., 120 S. Riverside Plaza, 22nd Floor, Chicago, Illinois 60606 and entitled METHODS FOR NUCLEIC ACID MANIPULATION, and in any and all other applications, both United States and foreign, which the assignors or assignee may file, either solely or jointly with others, on said invention or improvements, and in any and all patents of the United States and foreign countries which may be obtained on any of said applications and in any reissue or extension of such patents.

The assignors authorize the law firm of Welsh & Katz, Ltd. to enter the Serial No. and filing date of said application for patent in the spaces provided above.

The assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent to said assignee.

The assignors warrants themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the assignors hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary declaration, oath, or affidavit relating thereto, and any application for the reissue or extension of any Patent that may be granted upon said application, and any and all applications and other documents for Patent in foreign countries on said invention or improvements that said assignee, its successors, or assigns may deem necessary or expedient, and for the said considerations the assignor further agrees, upon the request of said assignee, its successors, or assigns, to cooperate to the best of the ability of the assignors with said assignee, its successors, or assigns, in any proceedings or transactions involving such application or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain and enforce said Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors, and assigns, whereby said patent will be

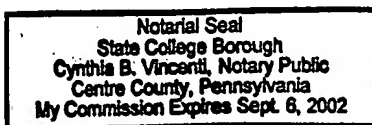
held and enjoyed by the said assignee, its successors and assigns to the full end of the term for which said Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date: 6/21/02
State of PA)
County of Centre) SS

Stephen J. Benkovic
Stephen J. Benkovic

On this 21st day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared Stephen J. Benkovic, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the use and purpose therein expressed.

WITNESS my hand and seal the day and year last above given.



(SEAL)

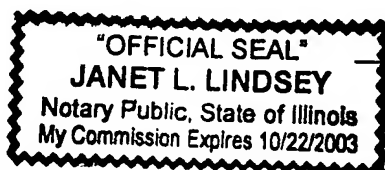
Cynthia B. Vincenti
Notary Public

Date: 6/10/02
State of Illinois)
County of Cook) SS

Frank Salinas
Frank Salinas

On this 10th day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared Frank Salinas, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the use and purpose therein expressed.

WITNESS my hand and seal the day and year last above given.



(SEAL)

Janet L. Lindsey
Notary Public